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 US Patents Full-Text Database
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 EPO Abstracts Database
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 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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L4

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DATE: Friday, March 12, 2004 [Printable Copy](#) [Create Case](#)

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

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L2 creatine amidinohydrolase or creatinase 230 L2

DB=USPT; PLUR=YES; OP=ADJ

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☐ 1. Document ID: US 20030119084 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 18

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119084

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030119084 A1

TITLE: Variants of Erwinia-type creatinase

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shao, Zhixin	Penzberg		DE	
Schmuck, Rainer	Benediktbeuern		DE	
Kratzsch, Peter	Antdorf		DE	
Kenklies, Janet	Penzberg		DE	
Weisser, Harald	Bernried		DE	

US-CL-CURRENT: 435/18; 435/227, 435/252.3, 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 2. Document ID: US 6080553 A

L4: Entry 2 of 18

File: USPT

Jun 27, 2000

US-PAT-NO: 6080553

DOCUMENT-IDENTIFIER: US 6080553 A

TITLE: Creatine amidinohydrolase, production thereof and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIMC	Draw De
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☐ 3. Document ID: US 5932466 A

L4: Entry 3 of 18

File: USPT

Aug 3, 1999

h e b b g e e f e b ef b e

US-PAT-NO: 5932466

DOCUMENT-IDENTIFIER: US 5932466 A

**** See image for Certificate of Correction ****

TITLE: Creatine amidinohydrolase gene, a novel recombinant DNA, and a process for producing creatine amidinohydrolase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 4. Document ID: US 5451520 A

L4: Entry 4 of 18

File: USPT

Sep 19, 1995

US-PAT-NO: 5451520

DOCUMENT-IDENTIFIER: US 5451520 A

TITLE: Creatine amidinohydrolase from alkaligenes sp. ks-85 ferm bp-4487

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 5. Document ID: US 5047329 A

L4: Entry 5 of 18

File: USPT

Sep 10, 1991

US-PAT-NO: 5047329

DOCUMENT-IDENTIFIER: US 5047329 A

TITLE: Method for the measurement of creatine or creatinine and reagents for these measurements

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 6. Document ID: US 4039384 A

L4: Entry 6 of 18

File: USPT

Aug 2, 1977

US-PAT-NO: 4039384

DOCUMENT-IDENTIFIER: US 4039384 A

TITLE: Creatinine amidohydrolase and creatine amidinohydrolase and process for producing them

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 7. Document ID: JP 09215494 A

L4: Entry 7 of 18

File: JPAB

Aug 19, 1997

PUB-NO: JP409215494A

DOCUMENT-IDENTIFIER: JP 09215494 A

TITLE: NEW CREATINE AMIDINOHYDROLASE, ITS PRODUCTION AND ITS USE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw De
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☐ 8. Document ID: JP 07170979 A

L4: Entry 8 of 18

File: JPAB

Jul 11, 1995

PUB-NO: JP407170979A

DOCUMENT-IDENTIFIER: JP 07170979 A

TITLE: NEW CREATINE AMIDINOHYDROLASE AND ITS PRODUCTION

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw De
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☐ 9. Document ID: JP 61067486 A

L4: Entry 9 of 18

File: JPAB

Apr 7, 1986

PUB-NO: JP361067486A

DOCUMENT-IDENTIFIER: JP 61067486 A

TITLE: NOVEL CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw De
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☐ 10. Document ID: JP 61067485 A

L4: Entry 10 of 18

File: JPAB

Apr 7, 1986

PUB-NO: JP361067485A

DOCUMENT-IDENTIFIER: JP 61067485 A

TITLE: PREPARATION OF CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw De
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☐ 11. Document ID: JP 61067484 A

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L4: Entry 11 of 18

File: JPAB

Apr 7, 1986

PUB-NO: JP361067484A

DOCUMENT-IDENTIFIER: JP 61067484 A

TITLE: PREPARATION OF CREATINE AMIDINOHYDROLASE

PUBN-DATE: April 7, 1986

INVENTOR-INFORMATION:

NAME

COUNTRY

KIKUCHI, TOSHIRO

TAKENAKA, HARUO

AISUI, SHIGENORI

US-CL-CURRENT: 435/228

INT-CL (IPC): C12N 9/80

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 12. Document ID: EP 1132467 A2

L4: Entry 12 of 18

File: EPAB

Sep 12, 2001

PUB-NO: EP001132467A2

DOCUMENT-IDENTIFIER: EP 1132467 A2

TITLE: Novel creatine amidinohydrolase, production thereof and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 13. Document ID: EP 790303 A1

L4: Entry 13 of 18

File: EPAB

Aug 20, 1997

PUB-NO: EP000790303A1

DOCUMENT-IDENTIFIER: EP 790303 A1

TITLE: Novel creatine amidinohydrolase, production thereof and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Drawn De
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☐ 14. Document ID: EP 790303 A1, JP 09215494 A, US 6080553 A, JP 3075390 B2

L4: Entry 14 of 18

File: DWPI

Aug 20, 1997

DERWENT-ACC-NO: 1997-404731

DERWENT-WEEK: 200172

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TITLE: Creatine amidinohydrolase enzyme with low Km - for use in assay for creatine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Drawn De
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☐ 15. Document ID: JP 07265074 A, JP 3114838 B2

L4: Entry 15 of 18

File: DWPI

Oct 17, 1995

DERWENT-ACC-NO: 1995-388685

DERWENT-WEEK: 200065

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TITLE: Creatine amidino:hydrolase - catalyses conversion of creatine to sarcosine and urea

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Drawn De
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☐ 16. Document ID: DE 4445084 A1, JP 2788174 B2, JP 07170979 A, US 5451520 A

L4: Entry 16 of 18

File: DWPI

Jun 22, 1995

DERWENT-ACC-NO: 1995-225787

DERWENT-WEEK: 199838

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TITLE: New creatine amidinohydrolase enzyme from *Alcaligenes* - useful for determin. of creatine and/or creatinine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Drawn De
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☐ 17. Document ID: JP 63182000 A, JP 94098032 B2, US 5047329 A

L4: Entry 17 of 18

File: DWPI

Jul 27, 1988

DERWENT-ACC-NO: 1988-252622

DERWENT-WEEK: 198836

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TITLE: Determining creatine or creatinine - using creatine amidino-hydrolase, by

enzymatically decomposing N-ethyl glycine and treating with sarcosine oxidase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw De
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☐ 18. Document ID: DE 2614114 A, DE 2614114 B, JP 51115989 A, JP 51118884 A, JP 77008394 B, JP 77008395 B, US 4039384 A

L4: Entry 18 of 18

File: DWPI

Oct 7, 1976

DERWENT-ACC-NO: 1976-77945X

DERWENT-WEEK: 197642

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TITLE: Creatine amid (in)hydrolase enzyme - obtd from strains of Flavobacterium, Micrococcus or Corynebacterium

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw De
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(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
12.09.2001 Bulletin 2001/37

(51) Int Cl.7: **C12N 9/78, C12N 9/80,
C12Q 1/34**

(21) Application number: **01113052.3**

(22) Date of filing: **13.02.1997**

(84) Designated Contracting States:
DE FR GB IT

(30) Priority: **13.02.1996 JP 2543596**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
97102270.2 / 0 790 303

(71) Applicant: **Toyo Boseki Kabushiki Kaisha**
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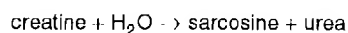
Remarks:

- The biological material has been deposited with
NIBH under number(s) BP-5374, BP-5375, BP-5376
- This application was filed on 29 - 05 - 2001 as a
divisional application to the application mentioned
under INID code 62.

(54) **Novel creatine amidinohydrolase, production thereof and use thereof**

(57) A creatine amidinohydrolase having the follow-
ing physicochemical properties:

Action: catalyzing the following reaction;



Optimum temperature: about 40 - 50°C

Optimum pH: pH about 8.0 - 9.0

Heat stability: not more than about 50°C (pH 7.5,
30 min)

Km value for creatine in a coupling assay using a
sarcosine oxidase and a peroxidase: about 3.5 -
10.0 mM

Molecular weight: about 43,000 (SDS-PAGE)

Isoelectric point: about 3.5,

a method for producing said enzyme, comprising culture
of microorganism producing said enzyme, a method for
the determination of creatine or creatinine in a sample
using said enzyme, and a reagent therefor. According
to the present invention, a creatine amidinohydrolase
having a smaller Km value than that of the convention-
ally known creatine amidinohydrolase can be produced
in an industrially large amount, and can be used as a
routine reagent for clinical tests for determining creatine
and creatinine in biological samples.